

10/531,145

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(FILE 'HOME' ENTERED AT 19:21:41 ON 21 MAY 2007)

FILE 'MEDLINE, CAPLUS, BIOSIS, SCISEARCH, LIFESCI' ENTERED AT 19:22:05 ON 21 MAY 2007

L1 1229380 S T(4A) (LYMPHOCYTE OR CELL)
 L2 2755 S (IMMUNIZ? OR STIMULAT?) (6A) (TUMOR OR CANCER) (3A) ANTIGEN
 L3 938 S RETROVIR? (9A) (INTERLEUKIN-2 OR IL-2)
 L4 1659 S L1 AND L2
 L5 1 S L3 AND L4
 L6 343841 S RETROVIR?
 L7 237087 S INTERLEUKIN-2 OR IL-2
 L8 50 S L4 AND L6
 L9 8 S L7 AND L8
 L10 6 DUP REM L9 (2 DUPLICATES REMOVED)

=> d bib ab 15

L5 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN
 AN 2004:354704 CAPLUS
 DN 140:373917
 TI Preparation of lymphocytes that express interleukin-2 and uses thereof in the treatment of cancer
 IN Liu, Ke; Rosenberg, Steven A.
 PA The Government of the United States of America Represented by the Secretary Department of Health and Human Services, USA
 SO PCT Int. Appl., 26 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004034789	A1	20040429	WO 2002-US33243	20021015
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	CA 2501087	A1	20040429	CA 2002-2501087	20021015
	AU 2002353822	A1	20040504	AU 2002-353822	20021015
	EP 1558085	A1	20050803	EP 2002-789213	20021015
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
	US 2005233451	A1	20051020	US 2005-531145	20050519
PRAI	WO 2002-US33243	W	20021015		

AB A method is disclosed of preparing autologous T-lymphocytes for re-introduction into a patient having cancer, which method comprises obtaining peripheral blood mononuclear cells (PBMCs) from a patient immunized with a cancer antigen, stimulating the PBMCs with the cancer antigen in vitro, transducing the PBMCs with a retroviral vector, which (1) comprises and expresses a human interleukin-2 (IL-2) coding sequence operably linked to a retroviral promoter, (2) does not comprise an exogenously introduced gene that enables phenotypic selection, and (3) comprises a viral envelope that efficiently transduces CD8+ T-lymphocytes. Also disclosed is a method of preparing autologous

tumor-infiltrating lymphocytes (TILs) for reintroduction into a patient having cancer, which comprises obtaining TILs from a tumor of the patient, optionally immunized with an antigen of the cancer, optionally stimulating the TILs with the cancer antigen in vitro, and transducing the TILs with the aforementioned retroviral vector. Also disclosed are compns. comprising cells obtained in accordance with such methods and methods of treating a patient having cancer by administering to the patient cells obtained in accordance with the above methods or compns.

RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d au ti so pi 1-6 l10

L10 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN

IN Liu, Ke; Rosenberg, Steven A.

TI Preparation of lymphocytes that express interleukin-2 and uses thereof in the treatment of cancer

SO PCT Int. Appl., 26 pp.

CODEN: PIXXD2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004034789	A1	20040429	WO 2002-US33243	20021015
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
CA 2501087	A1	20040429	CA 2002-2501087	20021015
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EP 1558085	A1	20050803	EP 2002-789213	20021015
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US 2005233451	A1	20051020	US 2005-531145	20050519

L10 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN

AU Jiang, Jie; Liang, Huamao; Kong, Beihua; Ma, Daoxin; Jiang, Sen

TI Study of anti-cancer immunity effects of interleukin 12 and co-stimulatory molecules B7-1

SO Zhongliu (2004), 24(2), 128-131

CODEN: ZHONEV; ISSN: 1000-7431

L10 ANSWER 3 OF 6 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN

AU Esposito, S. [Reprint Author]; Plebani, A. [Reprint Author]; Pinzani, R. [Reprint Author]; Trabattoni, D.; Amendola, A.; Rossi, M. [Reprint Author]; Droghetti, R. [Reprint Author]; Clerici, M.; Zanetti, A.; Principi, N. [Reprint Author]

TI T cell activation and HIV replication after a virosomal adjuvanted influenza vaccine in HIV-infected children.

SO Abstracts of the Interscience Conference on Antimicrobial Agents and Chemotherapy, (2003) Vol. 43, pp. 281. print.

Meeting Info.: 43rd Annual Interscience Conference on Antimicrobial Agents and Chemotherapy. Chicago, IL, USA. September 14-17, 2003. American Society for Microbiology.

L10 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN

AU Ogasawara, Masahiro; Rosenberg, Steven A.

TI Enhanced expression of HLA molecules and stimulation of autologous human

tumor infiltrating lymphocytes following transduction of melanoma cells
with γ -interferon genes

SO Cancer Research (1993), 53(15), 3561-8
CODEN: CNREA8; ISSN: 0008-5472

L10 ANSWER 5 OF 6 MEDLINE on STN DUPLICATE 1
AU Chen S J; Holbrook N J; Mitchell K F; Vallone C A; Greengard J S; Crabtree
G R; Lin Y
TI A viral long terminal repeat in the interleukin 2 gene
of a cell line that constitutively produces interleukin
2.
SO Proceedings of the National Academy of Sciences of the United States of
America, (1985 Nov) Vol. 82, No. 21, pp. 7284-8.
Journal code: 7505876. ISSN: 0027-8424.

L10 ANSWER 6 OF 6 MEDLINE on STN DUPLICATE 2
AU Gomard E; Wybier-Franqui J; Levy J P
TI Accessory cells in the in vitro generation of type C viruses specific
T killer lymphocytes. I. Role of macrophages in primary
anti-FMR reaction.
SO Journal of immunology (Baltimore, Md. : 1950), (1981 Mar) Vol. 126, No. 3,
pp. 891-6.
Journal code: 2985117R. ISSN: 0022-1767.

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L7 237087 S INTERLEUKIN-2 OR IL-2
L8 50 S L4 AND L6
L9 8 S L7 AND L8
L10 6 DUP REM L9 (2 DUPLICATES REMOVED)
L11 376 S L1(P)L3
L12 118482 S PBMC OR PERIPHERAL (W) BLOOD (W) MONONUCLEAR (W) CELL
L13 29 S L11 AND L12
L14 10 DUP REM L13 (19 DUPLICATES REMOVED)

=> d au ti so pi 1-10 l14

L14 ANSWER 1 OF 10 MEDLINE on STN DUPLICATE 1
AU Barzon Luisa; Pacenti Monia; Tacaliti Augusto; Franchin Elisa; Bruglia Matteo; Boscaro Marco; Palu Giorgio
TI A pilot study of combined suicide/cytokine gene therapy in two patients with end-stage anaplastic thyroid carcinoma.
SO The Journal of clinical endocrinology and metabolism, (2005 May) Vol. 90, No. 5, pp. 2831-4. Electronic Publication: 2005-02-15.
Journal code: 0375362. ISSN: 0021-972X.

L14 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN
IN Liu, Ke; Rosenberg, Steven A.
TI Preparation of lymphocytes that express interleukin-2 and uses thereof in the treatment of cancer
SO PCT Int. Appl., 26 pp.
CODEN: PIXXD2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004034789	A1	20040429	WO 2002-US33243	20021015
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
CA 2501087	A1	20040429	CA 2002-2501087	20021015
AU 2002353822	A1	20040504	AU 2002-353822	20021015
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US 2005233451	A1	20051020	US 2005-531145	20050519

L14 ANSWER 3 OF 10 MEDLINE on STN DUPLICATE 2
AU Sauce Delphine; Bodinier Marie; Garin Marina; Petracca Bruno; Tonnelier Nicolas; Duperrier Anne; Melo Junia V; Apperley Jane F; Ferrand Christophe; Herve Patrick; Lang Francois; Tiberghien Pierre; Robinet Eric
TI Retrovirus-mediated gene transfer in primary T lymphocytes impairs their anti-Epstein-Barr virus potential through both culture-dependent and

- selection process-dependent mechanisms.
- SO Blood, (2002 Feb 15) Vol. 99, No. 4, pp. 1165-73.
Journal code: 7603509. ISSN: 0006-4971.
- L14 ANSWER 4 OF 10 MEDLINE on STN DUPLICATE 3
AU Sauce Delphine; Tonnelier Nicolas; Duperrier Anne; Petracca Bruno; de
Carvalho Bittencourt Marcelo; Saadi Mounir; Saas Philippe; Ferrand
Christophe; Herve Patrick; Tiberghien Pierre; Robinet Eric
TI Influence of ex vivo expansion and retrovirus-mediated gene transfer on
primary T lymphocyte phenotype and functions.
SO Journal of hematotherapy & stem cell research, (2002 Dec) Vol. 11, No. 6,
pp. 929-40.
Journal code: 100892915. ISSN: 1525-8165.
- L14 ANSWER 5 OF 10 MEDLINE on STN DUPLICATE 4
AU Liu K; Rosenberg S A
TI Transduction of an IL-2 gene into human melanoma-reactive lymphocytes
results in their continued growth in the absence of exogenous IL-2 and
maintenance of specific antitumor activity.
SO Journal of immunology (Baltimore, Md. : 1950), (2001 Dec 1) Vol. 167, No.
11, pp. 6356-65.
Journal code: 2985117R. ISSN: 0022-1767.
- L14 ANSWER 6 OF 10 SCISEARCH COPYRIGHT (c) 2007 The Thomson Corporation on
STN
AU Casoli C (Reprint); Vicenzi E; Cimarelli A; Magnani G; Ciancianaini P;
Cattaneo E; Dall'Aglia P; Poli G; Bertazzoni U
TI HTLV-II down-regulates HIV-1 replication in IL-2-stimulated primary
PBMC of coinfecting individuals through expression of MIP-1 alpha
SO BLOOD, (1 MAY 2000) Vol. 95, No. 9, pp. 2760-2769.
ISSN: 0006-4971.
- L14 ANSWER 7 OF 10 MEDLINE on STN DUPLICATE 5
AU Amendola A; Poccia F; Martini F; Gioia C; Galati V; Pierdominici M;
Marziali M; Pandolfi F; Colizzi V; Piacentini M; Girardi E; D'offizi G
TI Decreased CD95 expression on naive T cells from
HIV-infected persons undergoing highly active anti-retroviral
therapy (HAART) and the influence of IL-2 low dose
administration. Irhan Study Group.
SO Clinical and experimental immunology, (2000 May) Vol. 120, No. 2, pp.
324-32.
Journal code: 0057202. ISSN: 0009-9104.
- L14 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN
AU Bovolenta, Chiara; Camorali, Laura; Lorini, Alessandro L.; Vallanti,
Giuliana; Ghezzi, Silvia; Tambussi, Giuseppe; Lazzarin, Adriano; Poli,
Guido
TI In vivo administration of recombinant IL-2 to individuals infected by HIV
down-modulates the binding and expression of the transcription factors
ying-yang-1 and leader binding protein-1/late simian virus 40 factor
SO Journal of Immunology (1999), 163(12), 6892-6897
CODEN: JOIMA3; ISSN: 0022-1767
- L14 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN
AU Zanussi, S.; Simonelli, C.; Bortolin, M. T.; D'andrea, M.; Crepaldi, C.;
Vaccher, E.; Nasti, G.; Politi, D.; Barzan, L.; Tirelli, U.; De Paoli, P.
TI Immunological changes in peripheral blood and in lymphoid tissue after
treatment of HIV-infected subjects with highly active anti-retroviral
therapy (HAART) or HAART + IL-2
SO Clinical and Experimental Immunology (1999), 116(3), 486-492
CODEN: CEXIAL; ISSN: 0009-9104
- L14 ANSWER 10 OF 10 MEDLINE on STN DUPLICATE 6
AU Sobol R E; Fakhrai H; Shawler D; Gjerset R; Dorigo O; Carson C; Khaleghi

T; Koziol J; Shiftan T A; Royston I
TI Interleukin-2 gene therapy in a patient with glioblastoma.
SO Gene therapy, (1995 Mar) Vol. 2, No. 2, pp. 164-7.
Journal code: 9421525. ISSN: 0969-7128.

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L5 and L9	11
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-
- ☐ 1. [20070081942](#). 20 Nov 06. 12 Apr 07. Gene differentially expressed in breast and bladder cancer, and encoded polypeptides. Zauderer; Maurice, et al. 424/1.49; 424/178.1 435/320.1 435/328 435/69.1 530/388.22 530/391.1 536/23.53 A61K39/395 20060101 A61K51/00 20060101 C07H21/04 20060101 C07K16/46 20060101 C12P21/06 20060101
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- ☐ 2. [20050249711](#). 07 Feb 05. 10 Nov 05. Allogeneic vaccine and methods to synthesize same. Gansbacher, Bernd. 424/93.21; 424/85.2 435/372 A61K048/00 C12N005/08 A61K038/20.
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- ☐ 3. [20050233451](#). 19 May 05. 20 Oct 05. Methods of preparing lymphocytes that express interleukin-2 and their use in the treatment of cancer. Liu, Ke, et al. 435/372; C12N005/08.
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- ☐ 4. [20050169900](#). 31 Mar 05. 04 Aug 05. Allogeneic vaccine and methods to synthesize same. Gansbacher, Bernd. 424/93.21; 424/85.2 424/85.6 435/369 435/456 A61K048/00 A61K038/21 C12N005/08 C12N015/867.
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- ☐ 5. [20040063907](#). 10 Jun 03. 01 Apr 04. Gene differentially expressed in breast and bladder cancer and encoded polypeptides. Zauderer, Maurice, et al. 530/350; 435/320.1 435/325 435/69.1 536/23.5 C07K014/705 C07H021/04 C12P021/02 C12N005/06.
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- ☐ 6. [20030219463](#). 18 Mar 03. 27 Nov 03. T cell receptor transfer into a candidate effector cell or a precursor thereof. Falkenburg, Johan Herman F., et al. 424/277.1; 435/372 435/455 A61K039/00 C12N005/08 C12N015/85.
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- ☐ 7. [20030096404](#). 31 May 02. 22 May 03. Lymphoid tissue-specific cell production from hematopoietic progenitor cells in three-dimensional devices. Pykett, Mark J., et al. 435/366; C12N005/08.
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- ☐ 8. [20020155447](#). 04 Apr 01. 24 Oct 02. Gene differentially expressed in breast cancer, and encoded polypeptides. Zauderer, Maurice, et al. 435/6; 435/226 435/320.1 435/325 435/69.1 435/7.23 536/23.2 C12Q001/68 G01N033/574 C07H021/04 C12N009/64 C12P021/02 C12N005/06.
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- ☐ 9. [7192769](#). 31 May 02; 20 Mar 07. Lymphoid tissue-specific cell production from hematopoietic progenitor cells in three-dimensional devices. Pykett; Mark J., et al. 435/373; 435/372.3 435/377 435/382 435/395 435/399. C12N5/06 20060101 .
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- ☐ 10. [6548299](#). 18 May 00; 15 Apr 03. Lymphoid tissue-specific cell production from hematopoietic progenitor cells in three-dimensional devices. Pykett; Mark J., et al. 435/377; 435/352 435/355 435/363 435/372 435/372.3 435/373 435/395 435/402 623/16.11. C12N005/06 .
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- ☐ 11. [5470730](#). 08 Aug 94; 28 Nov 95. Method for producing T.sub.H -independent cytotoxic T lymphocytes. Greenberg; Phillip D., et al. 435/456; 424/93.21 435/252.3 435/320.1 435/69.1 435/69.52 435/70.4. C12N015/12 C12N005/10 .
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-
- ☐ 1. [20070081942](#). 20 Nov 06. 12 Apr 07. Gene differentially expressed in breast and bladder cancer, and encoded polypeptides. Zauderer, Maurice, et al. 424/1.49; 424/178.1 435/320.1 435/328 435/69.1 530/388.22 530/391.1 536/23.53 A61K39/395 20060101 A61K51/00 20060101 C07H21/04 20060101 C07K16/46 20060101 C12P21/06 20060101
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- ☐ 2. [20050249711](#). 07 Feb 05. 10 Nov 05. Allogeneic vaccine and methods to synthesize same. Gansbacher, Bernd. 424/93.21; 424/85.2 435/372 A61K048/00 C12N005/08 A61K038/20.
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- ☐ 3. [20050233451](#). 19 May 05. 20 Oct 05. Methods of preparing lymphocytes that express interleukin-2 and their use in the treatment of cancer. Liu, Ke, et al. 435/372; C12N005/08.
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- ☐ 4. [20050169900](#). 31 Mar 05. 04 Aug 05. Allogeneic vaccine and methods to synthesize same. Gansbacher, Bernd. 424/93.21; 424/85.2 424/85.6 435/369 435/456 A61K048/00 A61K038/21 C12N005/08 C12N015/867.
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-
- ☐ 6. [20030219463](#). 18 Mar 03. 27 Nov 03. T cell receptor transfer into a candidate effector cell or a precursor thereof. Falkenburg, Johan Herman F., et al. 424/277.1; 435/372 435/455 A61K039/00 C12N005/08 C12N015/85.
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- ☐ 7. [20020155447](#). 04 Apr 01. 24 Oct 02. Gene differentially expressed in breast cancer, and encoded polypeptides. Zauderer, Maurice, et al. 435/6; 435/226 435/320.1 435/325 435/69.1 435/7.23 536/23.2 C12Q001/68 G01N033/574 C07H021/04 C12N009/64 C12P021/02 C12N005/06.
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L5 and L9	11

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 IBM Technical Disclosure Bulletins

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L10

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result set

<u>L10</u>	15 and l9	11	<u>L10</u>
<u>L9</u>	(tumor or cancer) near3 antigen	18218	<u>L9</u>
<u>L8</u>	L7	7	<u>L8</u>
<u>L7</u>	15 and L6	7	<u>L7</u>
<u>L6</u>	(immuniz\$ or stimulat\$) near6 (tumor or cancer) near3 antigen	1806	<u>L6</u>
<u>L5</u>	l3 and L4	26	<u>L5</u>
<u>L4</u>	pmmc or peripheral adj blood adj mononuclear adj cell	15138	<u>L4</u>
<u>L3</u>	l1 with L2	37	<u>L3</u>
<u>L2</u>	retrovir\$ near9 (interleukin-2 or il-2)	222	<u>L2</u>
<u>L1</u>	t near4 (lymphocyte or cell)	87562	<u>L1</u>

END OF SEARCH HISTORY